



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Weather Shield Manufacturing, Inc.
One Weather Shield Plaza (P.O. Box 309)
Medford, WI 54451-0309

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Legacy 1103 Tilt Transom" Aluminum Clad Wood Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1497, titled "Legacy Aluminum Clad Tilt Transom. (Model 1103)", sheets 1 through 3 of 3, dated 08/28/06, with revision A1 dated 11/01/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 11-1128.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
7/6/14

NOA No. 14-0424.10
Expiration Date: February 22, 2017
Approval Date: June 19, 2014
Page 1

Weather Shield Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

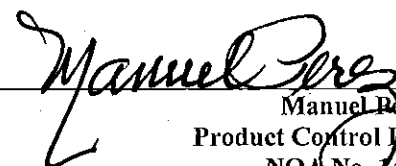
1. Manufacturer's die drawings and sections.
2. Drawing No **1497**, titled "Legacy Aluminum Clad Tilt Transom (Model 1103)", sheets 1 through 3 of 3, dated 08/28/06, with revision A1 dated 11/01/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA #11-1128.01)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an alum. clad wood fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCC-180-7087.1 Rev. A**, dated 01/10/06-02/28/06, with revision dated 01/19/07, signed and sealed by Thomas Kolden, P.E.
(Submitted under NOA #06-1005.08)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled alum. clad wood double hung windows with an alum. clad wood fixed transom lite, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCC- 180-7087.2 Rev. A**, dated 01/10/06-02/28/06 with revision dated 01/19/07, signed and sealed by Thomas Kolden, P.E.
(Submitted under NOA# 06-1005.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 09/22/06, and updated on 11/02/11, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA #11-1128.01)
2. Glazing complies with **ASTM E1300-04**



Manuel Perez, P.E.
Product Control Examiner
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D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

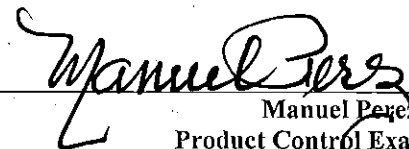
1. Notice of Acceptance No. **12-1231.10** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 03/28/13, expiring on 05/21/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010** and **FBC 5th Edition (2014)**, dated April 10, 2014, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated 10/24/11, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA #11-1128.01)

G. OTHERS

1. Notice of Acceptance No. **11-1128.01**, issued to Weather Shield Manufacturing, Inc. for their Series "**1103 Legacy Tilt Transom**" Aluminum Clad Fixed Window – L.M.I., approved on 02/16/12 and expiring on 02/22/17.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-0424.10

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GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

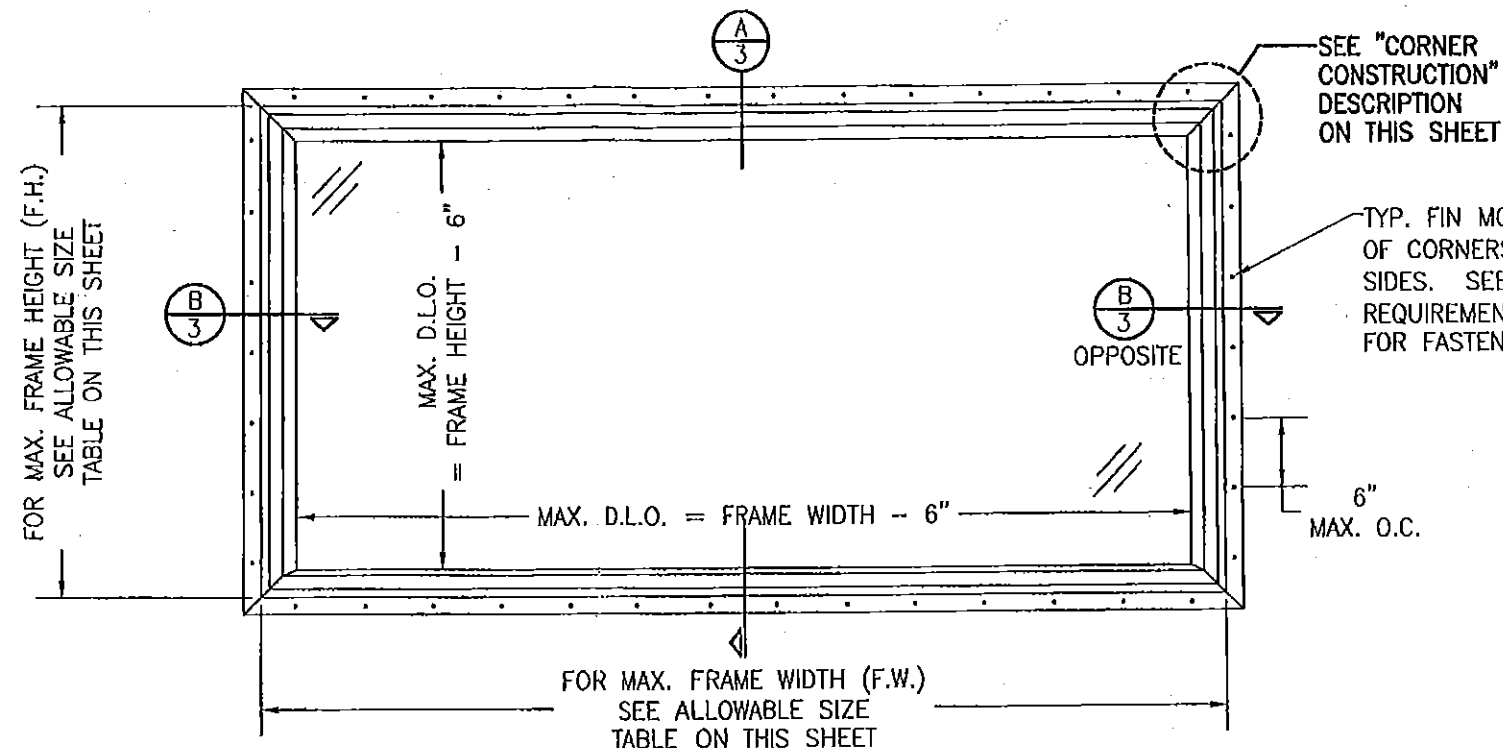
CORNER CONSTRUCTION:

FRAME CORNERS: WOOD JAMBS ARE RABBETED, BUTTED, SEALED WITH SILICONE & SECURED WITH THREE(3) 16 GAGE X 1/2" X 1 1/2" STAPLES PER CORNER. CLAD IS MITER CUT, SEALED AND SECURED WITH 1 NO. 6 X 1 1/4" SMS 410 S.S. SCREW PER CORNER.

SASH CORNERS: WOOD SASH CORNERS ARE TOUNGE & GROOVE FIT WITH CORNERS BUTTED AND SECURED WITH 1 NO. 8 X 2 1/2" SCREW THROUGH THE STILE INTO THE RAIL. ALUMINUM CLAD CORNERS ARE MITER CUT, JOINED WITH A CORNER KEY, SECURED WITH 2 NO. 6 X 1 1/4" SMS 410 S.S. SCREWS & SEALED WITH SILICONE.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.		
PLOT: 1=16		DATE: 08/28/06		
NO.	REVISION	DESCRIPTION	BY	DATE
A1	UPDATE	TO CURRENT STANDARDS	W.R.M.	11/01/11
		</		



TYP. FIN MOUNT FASTENER WITHIN 3" OF CORNERS AND MAX. 6" O.C. ALL SIDES. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR FASTENER REQUIREMENTS.

ALLOWABLE SIZE TABLE

MAX. FRAME LONG DIMENSION (IN.)	MAX. FRAME SHORT DIMENSION (IN.)
82 3/4"	42 7/8"
84 3/4"	41 3/4"
90 3/4"	39"
96 3/4"	36 5/8"
108 3/4"	32 5/8"
120 3/4"	29 3/8"
132 3/4"	26 5/8"
144 3/4"	24 1/2"

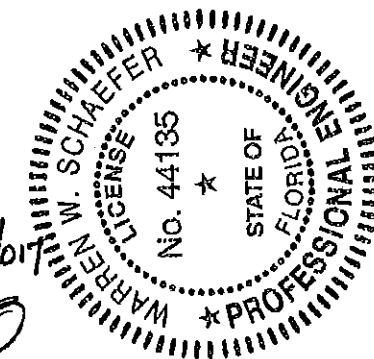
SHORT DIMENSION MAY BE THE FRAME HEIGHT OR WIDTH

ALLOWABLE DESIGN PRESSURE (SINGLE & MULLED UNITS)

+55/-70 PSF

PRODUCT REVISED as complying with the Florida Building Code
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By *Manuel Perez*
Miami Dade Product Control

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Miami Dade Product Control



FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FIN MOUNT FASTENER	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/2"	1/2"

DRAWING TITLE: LEGACY ALUMINUM CLAD TILT TRANSOM (MODEL 1103)

MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS

ONE WEATHER SHIELD PLAZA
MEDFORD, WI 54451
715-748-6555

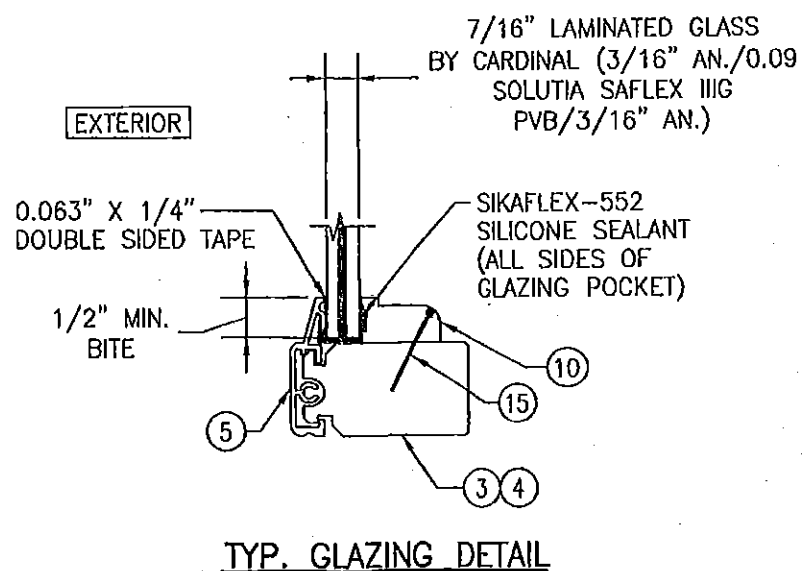
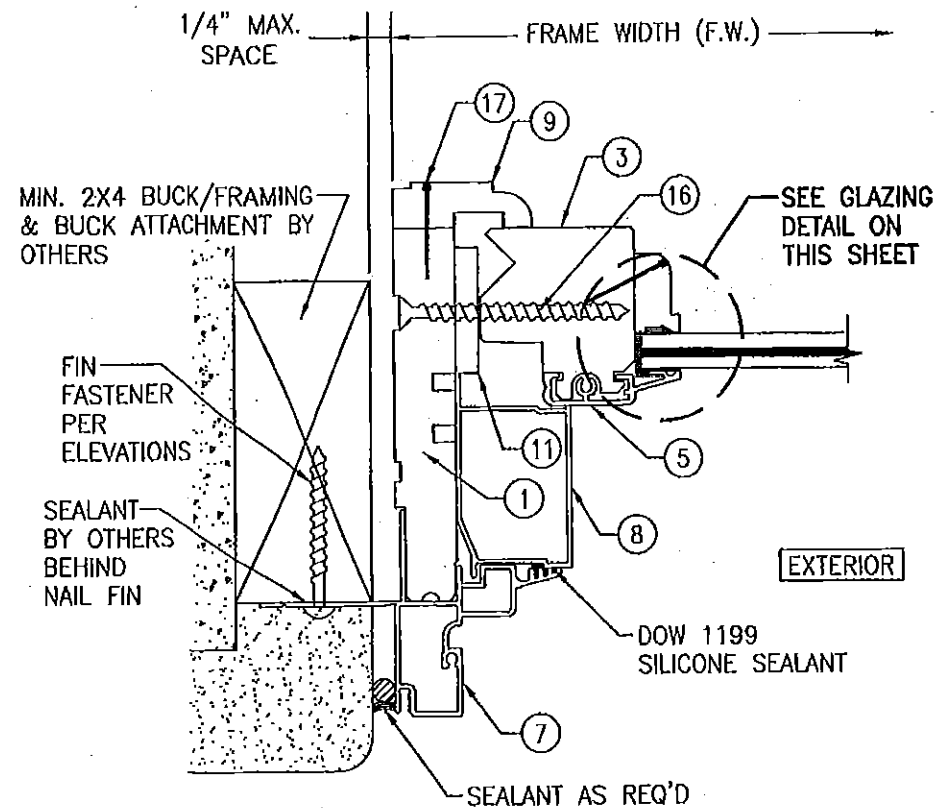
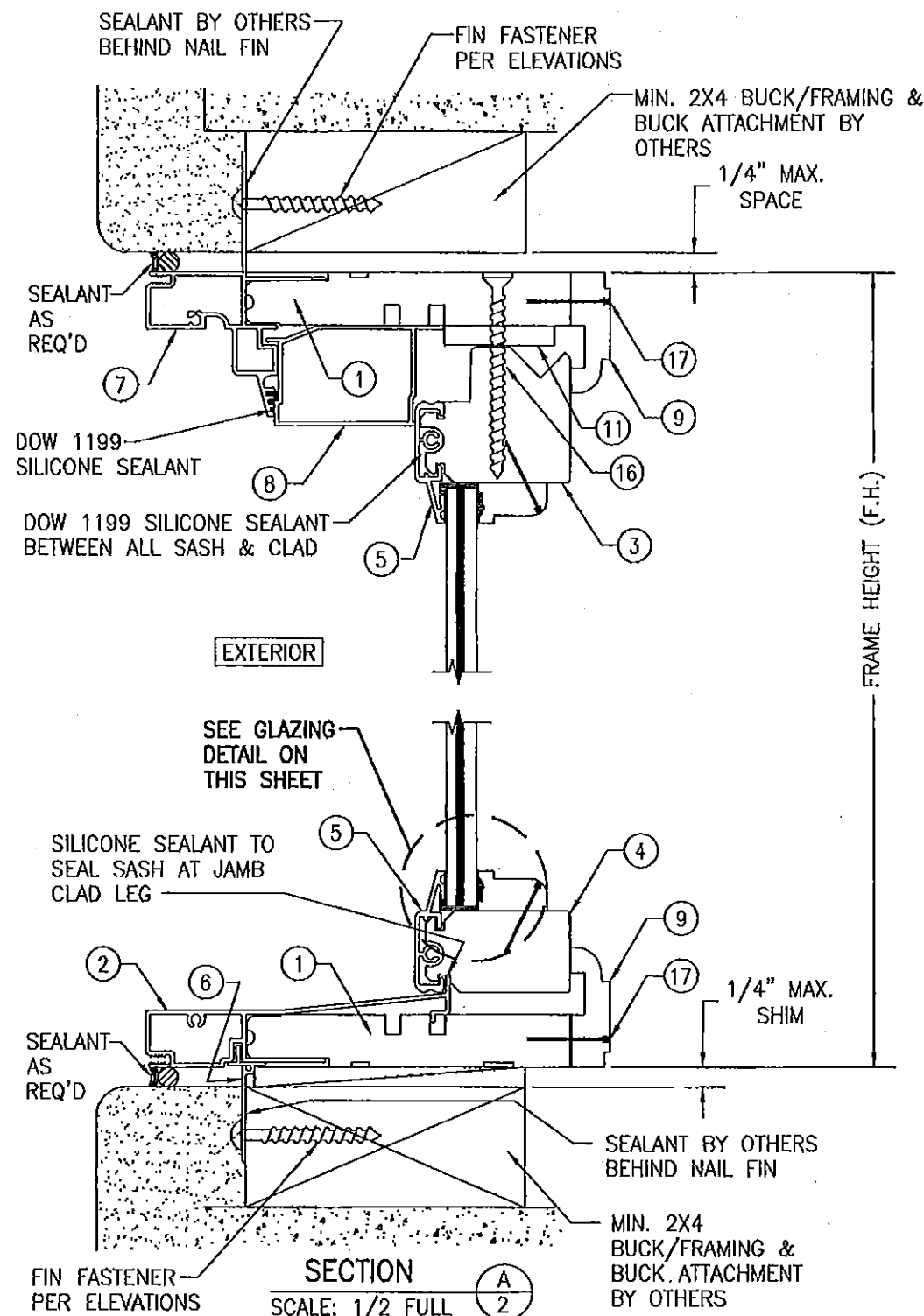
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)

7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION

NOV 01 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1497
REV. A
SHEET NO. 1 OF 3

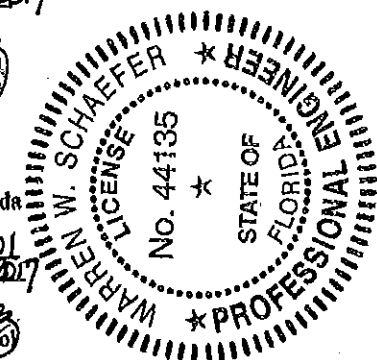


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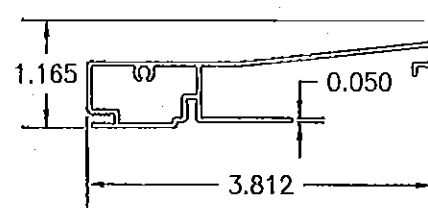
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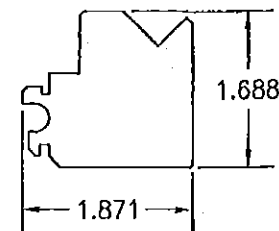
DRAWN BY: W.R.M.	CHECKED BY: W.R.S.
PLOT: 1-2	DATE: 08/28/08
DATE	BY
REVISION DESCRIPTION	NO.
LEGACY ALUMINUM CLAD TILT TRANSOM (MODEL 1103)	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	NOV 01 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1497	REV. A
SHEET NO. 2	OF 3



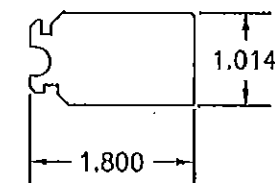
① JAMB/HEAD/SILL



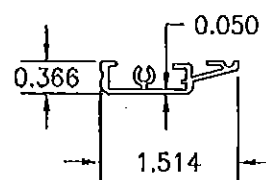
② SILL CLAD



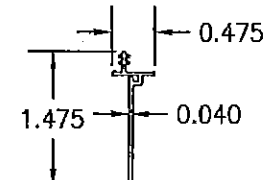
③ TOP RAIL & STILE



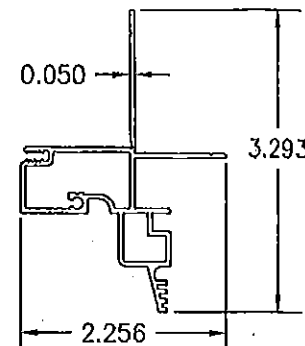
④ BOTTOM RAIL



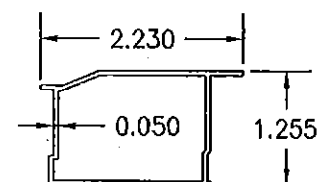
⑤ STILE & RAIL CLAD



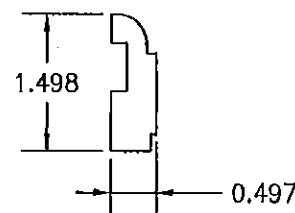
⑥ SILL NAIL FIN CLAD



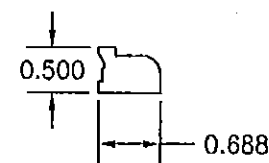
⑦ HEAD/JAMB CLAD



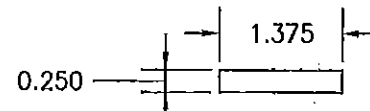
⑧ JAMB FILLER CLAD



⑨ INSIDE STOP



⑩ GLAZING BEAD



⑪ SASH SHIM

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	08-1004-01	JAMB/HEAD/SILL	LVL
2	04-2102-02	SILL CLAD	6063-T5 ALUMINUM
3	08-2106-02	TOP RAIL & STILE	* PONDEROSA PINE
4	08-2108-02	BOTTOM RAIL	* PONDEROSA PINE
5	04-1018-01	STILE & RAIL CLAD	6063-T5 ALUMINUM
6	P0058200	SILL NAIL FIN	VINYL
7	P0119700	HEAD/JAMB CLAD	6063-T5 ALUMINUM
8	08-1025-01	JAMB FILLER CLAD	6063-T5 ALUMINUM
9	08-1892-02	INSIDE STOP	* PONDEROSA PINE
10	60-4884-01	GLAZING BEAD	* PONDEROSA PINE
11	60-0894-01	SASH SHIM	* PONDEROSA PINE
MISC. FASTENERS			
15	-	18 GA. X 7/8" BRAD	WITHIN 3" OF ENDS & 8" O.C.
16	-	NO. 8 X 2 1/2" S.S. SCREW	WITHIN 4" OF ENDS & 10" TO 12" O.C.
17	-	7/16" CROWN X 1 1/8" STAPLE	WITHIN 3" OF ENDS & 10" O.C.

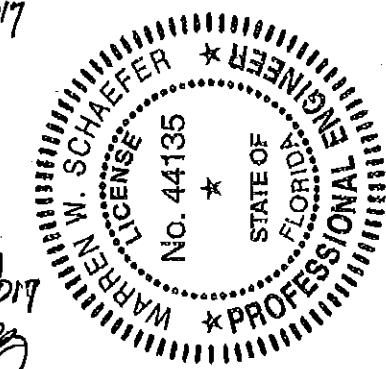
* WOOD USED IN TESTING WAS WESTERN PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY WEATHER SHIELD TO SELECT.

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BY			
REVISION DESCRIPTION			
NO.			

DRAWING TITLE: LEGACY ALUMINUM CLAD TILT TRANSOM (MODEL 1103)

CONSULTANTS:
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& CONSULTING, P.A. (CA 5809)
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